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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,874 12/05/2003		12/05/2003	Ming Benjamin Zhu	019680-001720US	8485
20350	7590	01/12/2006		EXAM	IINER
		TOWNSEND AND	JANKUS,	JANKUS, ALMIS R	
	TWO EMBARCADERO CENTER EIGHTH FLOOR			ART UNIT	PAPER NUMBER
		Δ 94111-3834		2672	

DATE MAILED: 01/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)					
	10/729,874	ZHU, MING BENJAMIN					
Office Action Summary	Examiner	Art Unit					
	Almis R. Jankus	2672					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 05 D	ecember 2003						
	action is non-final.						
· <u>—</u>	,						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>1-7</u> is/are pending in the application.	4) Claim(s) 1-7 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-7</u> is/are rejected.							
7)☐ Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
222 202 2022 2012 2012 2013 00 2013 00 2013 00 100 100 100 100 100 100 100 100 1							
Attachmont/s)							
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	CV (PTO 413)					
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail I	Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· —	Patent Application (PTO-152)					
Paper No(s)/Mail Date 6)							
U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Office A	ction Summary	Part of Paper No./Mail Date 20060105					

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DETAILED ACTION

1. Claims 1-7 are presented for examination.

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Chauvin et al.

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With respect to claim 1, Chauvin et al. teach the claimed binning frame geometries into screen tiles, at the abstract; determining the visible fragments of said geometries for each of said screen tiles by traversing said geometries multiple times, at columns 34-56 which teach several embodiments of the fragment operations, examples of multiple traversals can be found at least at figure 16, and at column 50 lines 14-19; rasterizing parameter values for said visible fragments, at column 50 lines 10-20; shading said visible fragments, at column 50 lines 10-20; and resolving colors for each pixel, at column 34 lines 53-55 and at column 35 lines 6-9.

Claim 2 further requires said binning step includes screen space tiling. Chauvin et al. teach this at the abstract.

Claim 3 further requires said binning step uses single+.buffering for page memory management. Chauvin et al. teach this at column 36 line 61 to column 37 line 35.

Claim 4 further requires wherein said determining step generates depth information.

Chauvin et al. teach this at figure 16.

Claim 5 further requires wherein said determining step scan converts primitives.

Chauvin et al. teach this at the abstract.

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Claim 6 further requires said determining step outputs visible fragments and visible geometries. Chauvin et al. teach this at figure 19.

Claim 7 further requires said determining step stores visibility information on a first pass and outputs visibility information on a last pass. Chauvin et al. teach this at figure 16.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Almis R. Jankus whose telephone number is 571-272-7643. The examiner can normally be reached on M-F, 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 571-272-7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AJ

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